SUN VALLEY LIGHTING

AREA & ROADWAY LIGHTING

PROJECT NAME:

PROJECT TYPE:

Amadeus Series - LED

TRANSITIONAL LANTERN

Luminaire
One piece unitized precise heavy wall cast aluminum construction comprised of low copper (< 0.2% Cu) aluminum. Hood is fastened to the Housing with a stainless steel hinge and secured with a tool-less stainless steel latch 180° opposite the hinge. Housing and Hood is sealed with an extruded closed cell silicone gasket. White Acrylic enclosure is gasketed at the fixture Mounting Hub and crown with an extruded closed cell silicone gasket. Driver/wiring access is inside the enclosure and accesses through the top of the Mounting Hub. Hub accommodates a 2⅞" x 3" tenon. All exposed hardware is stainless steel.

PLED™ Optics
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side, maximizing usable light. Optional house side shields are available that cover each individual optic. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-disconnects are provided above each panel for fast field replacement. No lens fixture option will provide "U0" no uplight optical package.

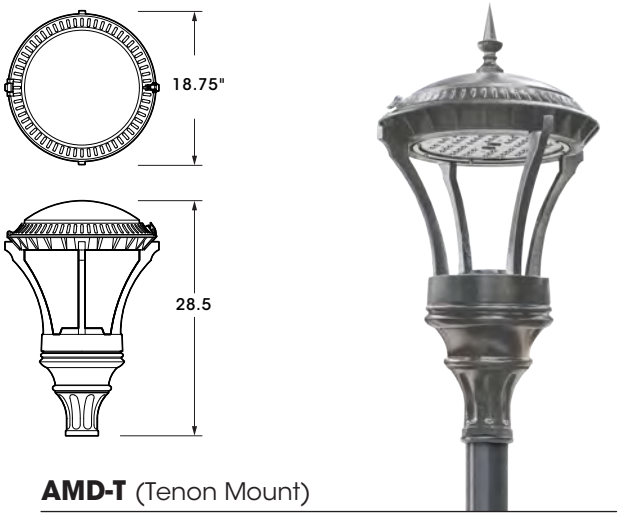
Ambiance Low Luminance Lens
Optional Ambiance Lens (AL) provides low luminance reduced glare distributions. Lens diffuses the PLED Optics and provides a more uniform luminance across the aperture reducing glare at all angles. Lens is provided with an aluminum frame and is sealed to the housing with high temp gasketing.

LED Emitters
LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life, high lumen maintenance and color stabilit. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard 2700K & 3000K, 4000K, or 5000K. All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TRA true Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

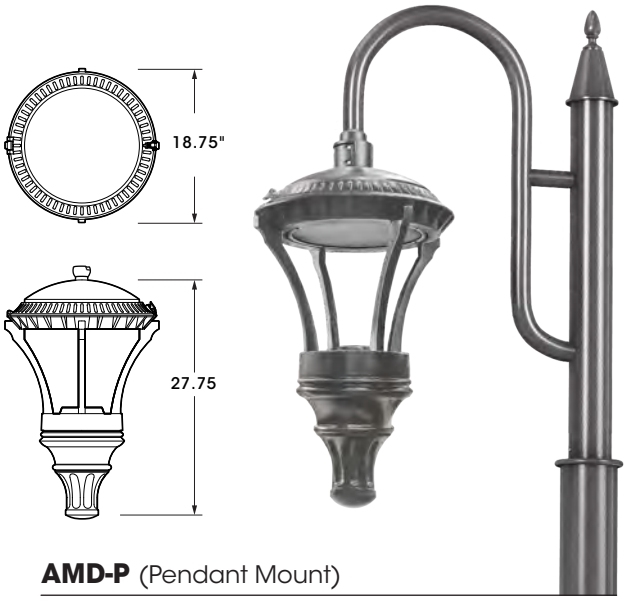
LED Driver
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.)

Finish
Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.



AMD-T (Tenon Mount)

Shown with Cast Finial - **CF.**
Fitter supplied to fit over 2 7/8" X 3" (73mm X 76mm) tennon.



AMD-P (Pendant Mount)

Shown with Ambiance Low Luminence Lens - **AL**

BABA compliant

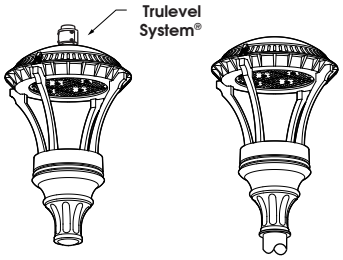
U.L. Listed for Wet Location

2026077

PRODUCT CONFIGURATIONS

EPA & Weight

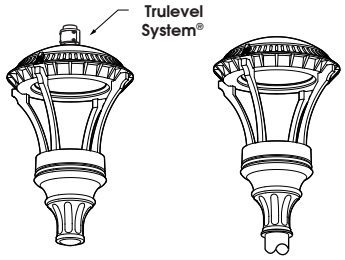
No Lens



AMD-P
Max Weight = 39 lbs
Max EPA = 1.24
48 LED Max

AMD-T
Max Weight = 39 lbs
Max EPA = 1.17
48 LED Max

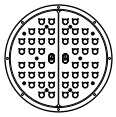
w/ Ambiance Low Luminence Lens



AMD-P-AL
Max Weight = 39 lbs
Max EPA = 1.24
48 LED Max

AMD-T-AL
Max Weight = 39 lbs
Max EPA = 1.17
48 LED Max

PLED™ Modules


48 LED Module


36 LED Module


20 LED Module

Accessories

CF  Cast Finial

SPEC/ORDERING INFORMATION

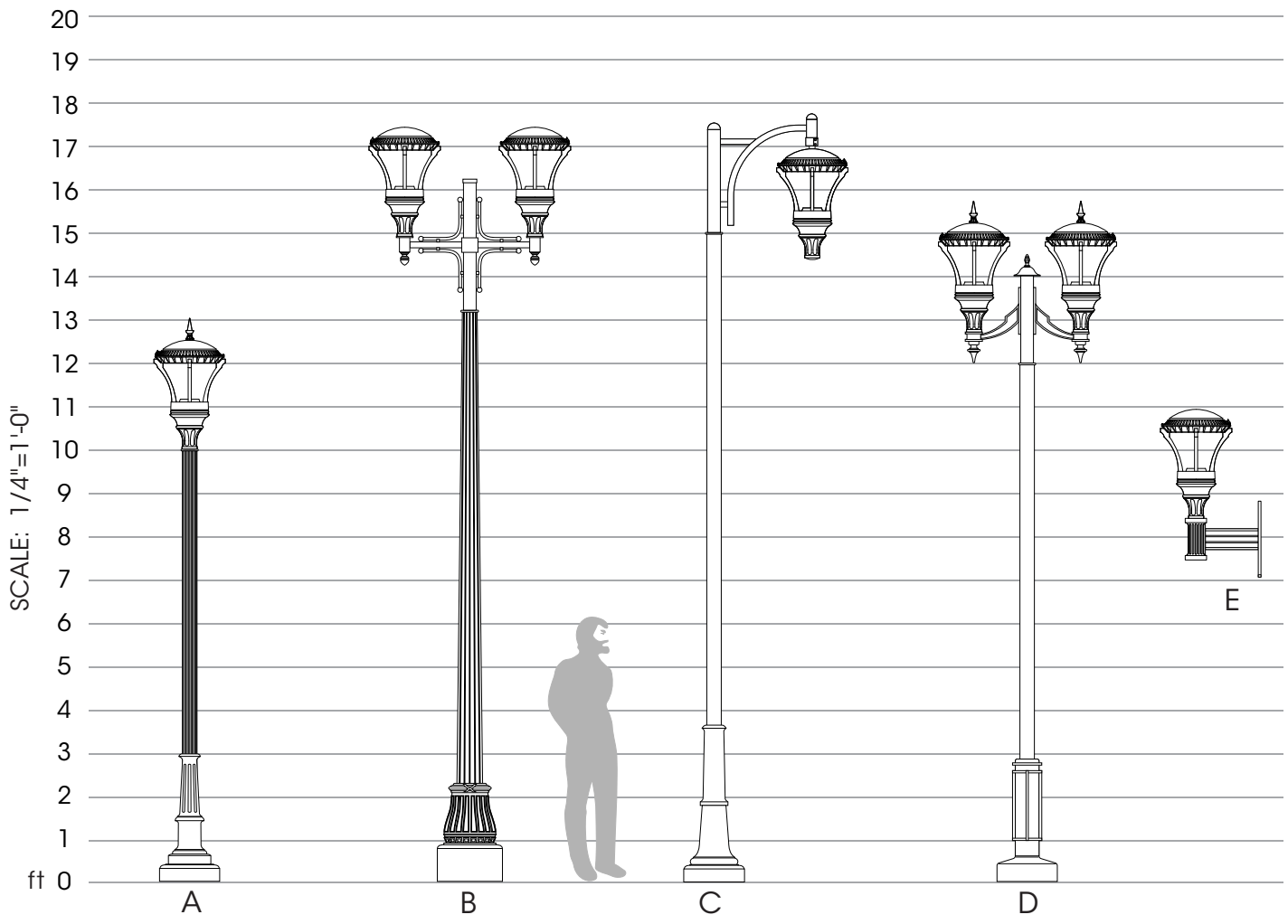
Spec/Order Example: AMD/PLED-III-W/36-875mA/27K/UNV/PM/7004-T

Luminaire	Optics	LED Mode			Voltage	Mounting	Finish	Options
	PLED™ Distribution Type	# of LEDs	Drive Current	Color Temp - CCT		Post Top	Standard Textured Finish	
AMD	**PLED-II** Type II	**48**[1]	**1050mA**[2]	**27K** (2700K)	**UNV** (120-277)	**PT23** (To fit 2 3/8" O.D.) ●	**9005-T** Black	**CF** Cast Finial
	PLED-II-FR Type II Front Row	**36**	**875mA**[2]	**30K** (3000K)	**347**	**PT27** (To fit 2 7/8" O.D.) ●	**9003-T** White	**HS-PLED** Internal House Side Shield include LED Count (Example: HS-PLED/48)
	PLED-III-M Type III Med.	**20**	**700mA**[2]	**40K** (4000K)	**480**	Pendant Mount	**7004-T** Grey	**TPR** Twist Lock Receptable Only
	PLED-III-W Type III Wide		**525mA**	**50K** (5000K)		**PM** ●	**8019-T** Dark Bronze	**TPR7** 7-Pin Twist Lock Receptable Only
	PLED-IV Type IV		**350mA**	Consult Factory for Other LED Color, CCT, & CRI Options		Arm Mount	**6005-T** Green	**HLSW** High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25)
	PLED-IV-FT Type IV					**1** ●	Premium Finishes	**PC+V** Photo Cell + Voltage (Example: PC120V)
	PLED-VSQ-N Type V Narrow					**2-180** ●	Rust	**SF** Single Fuse (120V, 277V)
	PLED-V-SQ-M Type V Med.					**2-90** ●	**PC** Patina Copper	**DF** Double Fuse (208V, 240V)
	PLED-V-SQ-W Type V Wide					**3-90** ●	For smooth finish replace suffix "T" with suffix "S" (Example: 9500-S)	**MS-F311** Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75fc; Pole Mounted)
	Ambiance™ Lens Option[5]:					**3-120** ●	Consult factor for custom colors	
	AL-ASY					**4-90** ●		
	AL-ASY-HS					Wallmount		
	AL-SYM					**WM** ●		
						See USALTG.COM for additional arm styles		

NOTES:
1 - 875mA maximum
2 - 700mA, 875mA and 1050mA not for use with TRA LED's
3 - Narrow band Ambers have no Definable CCT equivalent
4 - Available in 350mA & 525mA drive currents only

Consult factory for other CCT, CRI, & Drive Current options

SAMPLE ASSEMBLIES



A. 4-1060-10'/PT/AMD–T/LED/CF/FINISH

B. 17SB-1050C-13'-3"/XBX-2-180/AMD-T/LED/ACCESSORIES/FINISH

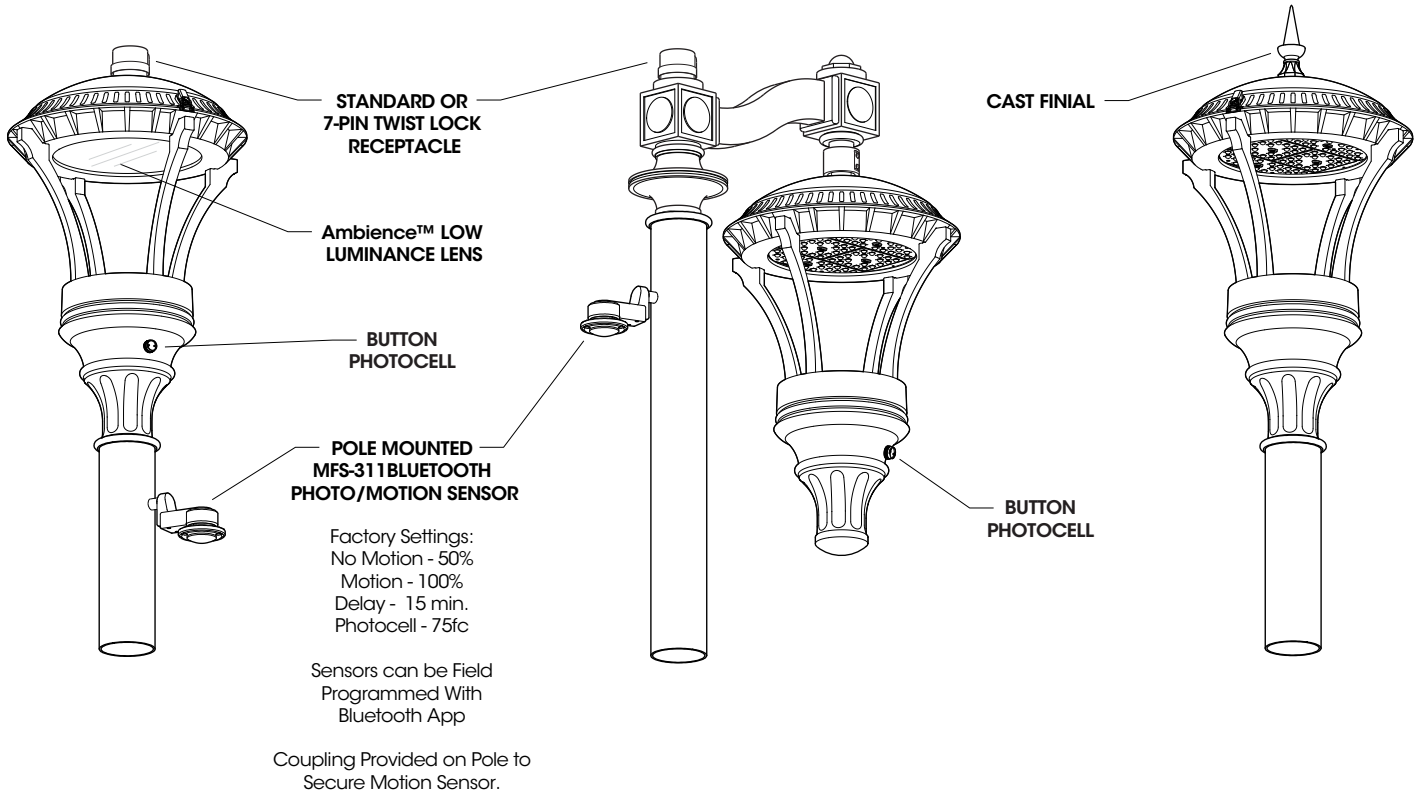
C. 35-1040-15'/XPB–1/AMD-P/LED/ACCESSORIES/FINISH

D. 53-1040-12'/XAZ-DN-2-180/AMD-T/LED/CF/FINISH

E. WM-XAX/AMD-T/LED/ACCESSORIES/FINISH

Sample Assemblies show a small offering of the Sun Valley Line of Poles, Bases, Shafts, Arms, & Luminaires. Please visit usaltg.com for the full product offering.

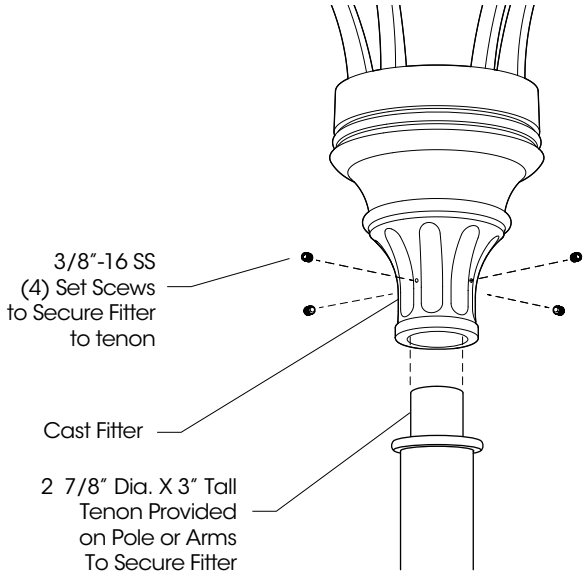
OPTIONS



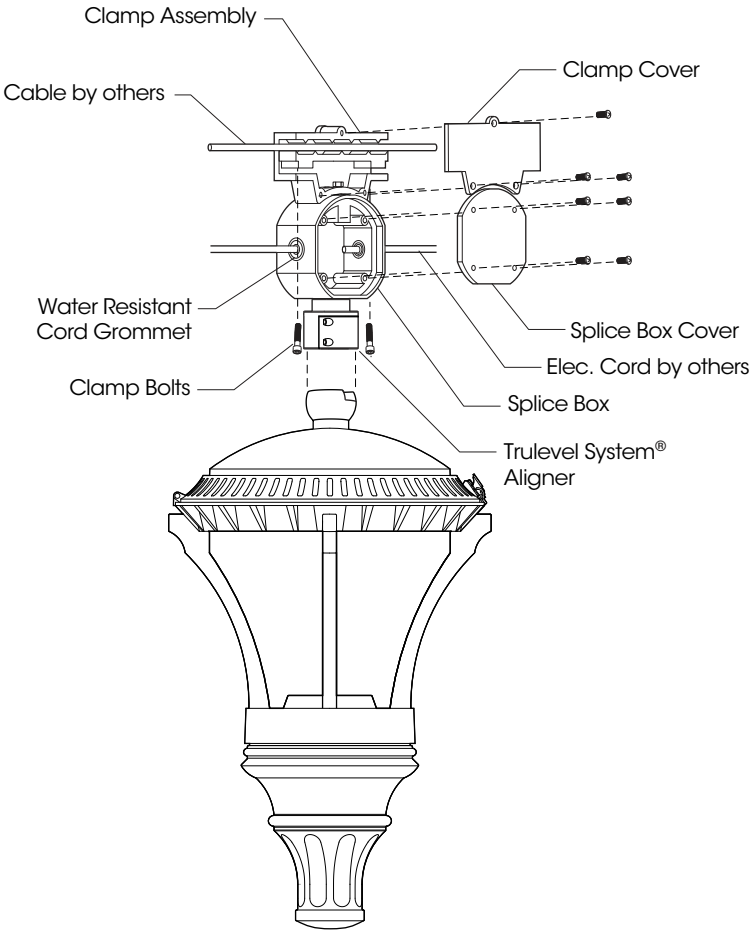
High Low Dimming For Switches (HLSW)
The HLSW is a Small Electronic Switch which Provides High Low Dimming Control Through the LED Driver's 0-10V Control. Switching is Done by Adding a Seconday AC Switched Hot Trigger Line to the HLSW in Addition to the Normal AC Power Line. When the Secondary Trigger Line is Powered, the Fixture will go to 100% Dimming. With no Power to the Trigger, the Fixture will operate at 50% or 25% Dimming. Switches for the Trigger Line can be a Normal AC Switch/Breaker or Timed Switch/Breaker.

Wireless and Other Fixture Controls
Contact Factory for Wireless and Other Fixture Controls and Recomendations. Most Controls Can be Integrated and Factory Installed.

INSTALLATION DETAIL

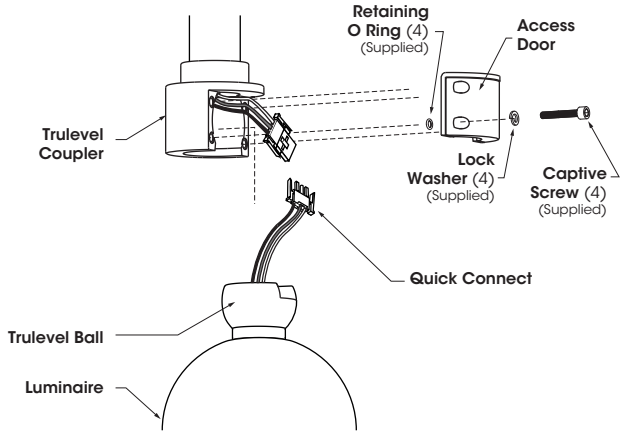


AMD Post Top Installation

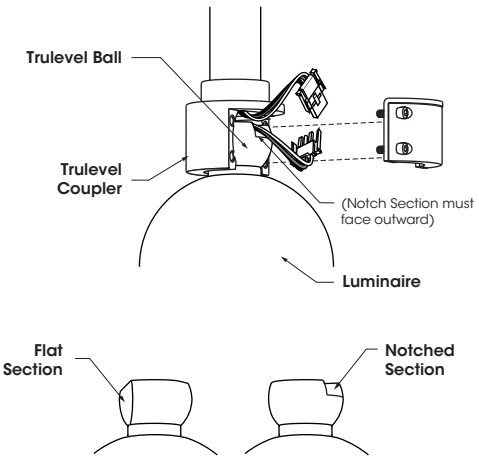


AMD Catenary Installation

Trulevel System® Assembly for Installation of Pendant Mount Luminaires



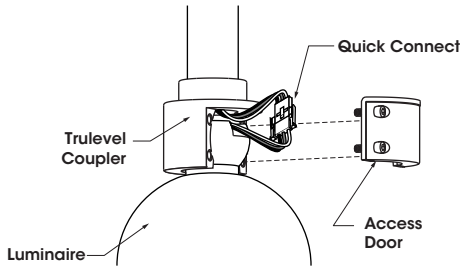
1. Loosen (4) Captive Screws and remove Access Door from Trulevel Coupler, pull out Quick Connect from Trulevel Coupler and Trulevel Ball.



2. Place Trulevel Ball inside of Trulevel Coupler as illustrated.

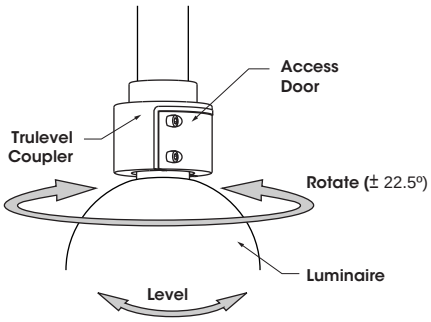
   A - Notched Section of Trulevel Ball must face outward as illustrated.

   B - Flat Section of Trulevel Ball must face inward.



3. Connect Quick Connect components, push components inside of Trulevel Coupler cavity, replace Access Door and loosely secure, do not tighten.

   Fixture will suspend without Access Door during installation.



4. Rotate (left to right ± 22.5°) and level Luminaire to desired position. Tighten Access Door.

   (Tighten each bolt to recommended torque: **10 ft-lb, foot-pound**)

   Trulevel Pendant Mount is intended to allow for fixture leveling, but is not intended to be "free-swinging" upon proper installation.

LED/ELECTRICAL GUIDE

LED Count	Applied B-U-G Rating	Source	Initial Lumens - 4000K CCT	Initial Lumens - 3000K CCT	Initial Lumens - 5000K CCT	L70 greater than (HR)	Starting Temp.	System Watts	Volts	Max Input Amps
20	III B1-U0-G1 VSQ B2-U0-G0	20 PLED® Optical Module – 350mA	2023 - 2376	1922 - 2258	2124 - 2494	90,000+	-40°C	22	120 277 347	.18 .08 .06
20	III B1-U0-G1 VSQ B2-U0-G1	20 PLED® Optical Module – 525mA	2871 - 3373	2728 - 3204	3014 - A3541	90,000+	-40°C	33	120 277 347	.28 .12 .10
20	III B1-U0-G1 VSQ B3-U0-G1	20 PLED® Optical Module – 700mA	3602 - 4231	3422 - 4020	3781 - 4442	90,000+	-40°C	44	120 277 347	.37 .16 .13
20	III B1-U0-G1 VSQ B3-U0-G1	20 PLED® Optical Module – 875mA	4328 - 5084	4112 - 4830	4544 - 5338	90,000+	-40°C	55	120 277 347	.46 .20 .16
20	III B1-U0-G2 VSQ B3-U0-G1	20 PLED® Optical Module – 1050mA	5035 - 5915	4784 - 5619	5286 - 6210	90,000+	-40°C	66	120 277 347	.55 .24 .19
36	III B1-U0-G1 VSQ B3-U0-G1	36 PLED® Optical Module – 350mA	3642 - 4278	3641 - 4065	3824 - 4491	90,000+	-40°C	39.6	120 277 347	.33 .14 .11
36	III B2-U0-G2 VSQ B3-U0-G1	36 PLED® Optical Module – 525mA	5172 - 6075	4914 - 5772	5430 - 6377	90,000+	-40°C	59.4	120 277 347	.50 .21 .17
36	III B2-U0-G2 VSQ B3-U0-G2	36 PLED® Optical Module – 700mA	6485 - 7616	6161 - 7236	6808 - 7995	90,000+	-40°C	79.2	120 277 347	.66 .29 .23
36	III B2-U0-G2 VSQ B3-U0-G2	36 PLED® Optical Module – 875mA	7794 - 9154	7405 - 8697	8182 - 9610	90,000+	-40°C	99	120 277 347	.83 .36 .29
36	III B2-U0-G2 VSQ B4-U0-G2	36 PLED® Optical Module – 1050mA	9069 - 10651	8616 - 10119	9521 - 11183	90,000+	-40°C	118.8	120 277 347	.99 .43 .34
48	III B1-U0-G1 VSQ B3-U0-G1	48 PLED® Optical Module – 350mA	4857 - 5704	4614 - 5419	5099 - 5990	90,000+	-40°C	52.8	120 277 347	.44 .19 .15
48	III B2-U0-G2 VSQ B3-U0-G2	48 PLED® Optical Module – 525mA	6896 - 8100	6552 - 7696	7239 - 8504	90,000+	-40°C	79.2	120 277 347	.66 .29 .23
48	III B2-U0-G2 VSQ B3-U0-G2	48 PLED® Optical Module – 700mA	8645 - 10153	8214 - 9647	9075 - 10660	90,000+	-40°C	105.6	120 277 347	.88 .38 .30
48	III B2-U0-G2 VSQ B4-U0-G2	48 PLED® Optical Module – 875mA	10393 - 12207	9874 - 11597	10911 - 12816	90,000+	-40°C	132	120 277 347	1.10 .48 .38
True Amber LED - 590nm										
20	III B0-U0-G0 VSQ B1-U0-G0	20 PLED® Optical Module – 350mA	606 - 712			90,000+	-40°C	17	120 277 347	.14 .06 .05
20	III B0-U0-G0 VSQ B1-U0-G0	20 PLED® Optical Module – 525mA	861 - 1011			90,000+	-40°C	25.4	120 277 347	.21 .09 .07
36	III B0-U0-G0 VSQ B1-U0-G0	36 PLED® Optical Module – 350mA	1094 - 1284			90,000+	-40°C	30.5	120 277 347	.25 .11 .09
36	III B1-U0-G1 VSQ B1-U0-G0	36 PLED® Optical Module – 525mA	1552 - 1823			90,000+	-40°C	45.7	120 277 347	.38 .16 .13
48	III B1-U0-G0 VSQ B1-U0-G0	48 PLED® Optical Module – 350mA	1457 - 1711			90,000+	-40°C	40.7	120 277 347	.34 .15 .12
48	III B1-U0-G1 VSQ B2-U0-G0	48 PLED® Optical Module – 525mA	2069 - 2431			90,000+	-40°C	61	120 277 347	.51 .22 .18

1) Max Input Amps is the highest of starting, operating, or open circuit currents

2) System Watts includes the source watts and all driver components.

3) Lumen values for LED Modules vary according to the distribution type

4) Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use 20KV surge suppressors.

5) L70(10K) – TM-21 6x rule applied

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.